

FORM PT01449  
(REV. 8-83)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
HARI.006UST

SERIAL NO.  
09/143,233

INFORMATION DISCLOSURE STATEMENT

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APPLICANT  
Eliyahou Harari et al.

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U. S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
LH	A6	4 0 5 1 3 5 4	1977	Choate			
LH	A7	4 0 6 6 8 8 0	1978	Salley			
LH	A8	4 0 8 7 7 9 5	1978	Rosler			
LH	A9	4 1 0 1 9 0 0	1980	McCoy			
LH	A10	4 2 7 9 0 7 4	1981	Schrenk			
LH	A11	4 7 0 7 5 7 0	1981	Stark			
LH	A12	4 3 5 7 6 0 5	1982	Daniele et al.			
LH	A13	4 3 6 5 3 1 0	1982	Aichelmann Jr. et al.			
LH	A14	4 4 2 2 1 6 1	1983	Kressel et al.			
LH	A15	4 4 3 0 7 7 7	1983	Moore et al.			
LH	A16	4 4 4 0 4 0 0	1980	Harari			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS. (YES/N)
LH	B1	JP 58 2 1 5 7 9 4	1983	Japan			Abstrac
LH	B2	JP 60 0 7 6 0 9 7	1985	Japan			Abstrac
LH	B3	JP 59 0 4 5 6 9 5	1984	Japan			Abstrac
LH	B4	JP 59 1 6 2 6 9 5	1984	Japan			Abstrac
LH	B5	JP 63 1 8 3 7 0 0	1988	Japan			Abstrac

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

LH	C1	Torelli, Guido "An LSI Technology Fully Compatible EAROM Cell", S-ATES Componenti Elettronici SpA, no. 6, vol. LI, 7 pp., 1982.
LH	C2	Berenga et al. "E2-PROM TV Synthesizer", 1978 IEEE International Solid-State Circuits Conference: ISCCC 78, February 17, 1978, pp. 196-197.
LH	C3	Lucerno et al. "A 16 kbit Smart 5 V-only EEPROM with Redundancy", IEEE Journal of Solid-State Circuits, Vol. SC-18, no. 5, pps. 539-543, October 1983.

EXAMINER

Ly V. Hua

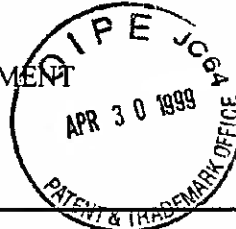
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<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)				<b>APPLICANT</b> Eliyahou Harari et al.		<b>RECEIVED</b>								
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<b>U. S. PATENT DOCUMENTS</b>														
*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE	
LWH		A17	4	4	6	0	9	8	2	1984	Gee et al.			
LWH		A18	4	4	9	3	0	7	5	1985	Anderson et al.			
LWH		A19	4	5	2	5	8	3	9	1985	Nozawa et al.			
LWH		A20	4	5	2	7	2	5	1	1985	Nibby Jr. et al.			
LWH		A21	4	5	2	8	6	8	3	1985	Henry			
LWH		A22	4	5	6	2	5	3	2	1985	Nishizawa et al.			
LWH		A23	4	6	0	8	6	7	1	1986	Shimizu et al.			
LWH		A24	4	6	1	2	6	4	0	1986	Mehrotra et al.			
LWH		A25	4	6	1	6	3	1	1	1986	Sato			
LWH		A26	4	6	1	7	6	5	1	1986	Ip et al.			
LWH		A27	4	6	3	8	4	5	7	1987	Schrenk			
<b>FOREIGN PATENT DOCUMENTS</b>														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	TRANS. (YES/N)	
LWH		B6	JP	58	2	1	5	7	9	5	1983	Japan		Abstrac
LWH		B7	JP	63	2	0	0	3	9	8	1988	Japan		Abstrac
LWH		B8	JP	62	2	8	3	4	9	6	1987	Japan		Abstrac
LWH		B9	JP	54	1	5	8	1	4	1	1979	Japan		Abstrac
LWH		B10	JP	58	0	6	0	4	9	3	1983	Japan		Abstrac
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)</b>														
LWH		C4	Stark Moshe, "Two Bits Per Cell ROM", Digest of Papers of Spring COMPCONS 81, Feb. 23-26, VLSI LABORATORY, pp. 209-212.											
LWH		C5	Torelli et al, "An Improved Method for Programming a Word-Erasable EEPROM", Alta Frequenza, Vol. 52, Nov. - Dec. 1983, no. 6, pp. 487-494.											
LWH		C6	Harold, " Production EPROM Loading", New Electronics, Vol. 15 (1982) Feb. 1982, No. 3, London, Great Britain, pp. 46-50.											
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**U. S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
LWH	A28 4 6 5 2 8 9 7	1987	Okuyama et al.			
LWH	A29 4 6 6 3 7 7 0	1987	Murray et al.			
LWH	A30 4 6 6 7 2 1 7	1987	Janning			
LWH	A31 4 6 8 2 2 8 7	1987	Mizuno et al.			
LWH	A32 4 7 1 8 0 4 1	1988	Baglee et al.			
LWH	A33 4 7 3 3 3 9 4	1988	Giebel			
LWH	A34 4 7 5 7 4 7 4	1988	Fukushi et al.			
LWH	A35 4 7 6 3 3 0 5	1988	Kuo			
LWH	A36 4 7 7 4 7 0 0	1988	Satoh et al.			
LWH	A37 4 8 0 0 5 2 0	1989	Iijima			
LWH	A38 4 8 0 3 7 0 7	1989	Cordan Jr.			

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**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS. (YES/N)
B11 JP 58 0 8 8 7 7 7	1983	Japan			Abstrac
B12 JP 62 2 8 3 4 9 7	1988	Japan			Abstrac
B13 FR 2 0 3 0 0 0 5	1980	France			Abstrac
B14 DE 3 2 0 0 0 7 2	1983	Germany			Abstrac
B15 EP 0 2 5 1 0 0 0	1988	EPO			Abstrac

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent pages, Etc.)*

LWH	C7	Alberts et al., "Multi-Bit Storage Fet Earom Cell", IBM Technical Disclosure Bulletin," Vol. 24, No. 7A, Dec 1981, pp. 3311-3314, 4193.
LWH	C8	Bleiker et al., "A Four State EEPROM using Floating-Gate Memory Cells", IEEE, Vol. SC-22, No. 3, Jounal of Solid-State Circuits, June 1987, pp. 460-463.
LWH	C9	Yasuo Tarui, "Japanese Develop Nondestructive Analog Semiconductor Memory", Electronics Review, pp. 29-30, July 11, 1974.

<b>EXAMINER</b> <div style="font-family: cursive; font-size: 1.2em;">Ly V. Hua</div>	<b>DATE CONSIDERED</b> <div style="font-family: cursive; font-size: 1.2em;">12/14/99</div>
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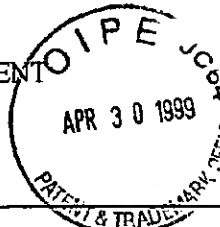
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Wd	A39 4 8 6 0 2 2 8	1989	Carroll			
Wd	A40 4 8 8 7 2 3 4	1989	Iijima			
Wd	A41 4 8 8 8 6 8 6	1989	Sinz et al.			
Wd	A42 4 8 9 6 2 6 2	1991	Wayama et al.			
Wd	A43 4 9 4 2 5 5 6	1990	Sasaki et al.			
Wd	A44 4 9 4 9 2 4 4	1991	Iijima			
Wd	A45 4 9 9 2 9 8 4	1991	Busch et al.			
Wd	A46 5 0 1 6 2 1 5	1991	Tigelaar			
Wd	A47 5 4 4 3 9 4 0	1991	Harari			
Wd	A48 5 4 5 1 9 9 4	1991	Bluethman et al.			
Wd	A49 5 4 5 3 9 9 3	1991	Kreifels et al.			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS. (YES/N)
B16 GB 2 2 1 5 1 5 5	1989	United Kingdom			
B17 EP 4 3 4 9 7 7 5	1989	EPO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

C10	Furuyama et al, "An Experimental 2-BIT/CELL Storage Dram for Macro Cell or Memory-on-Logic Application", IEEE Custom Integrated Circuits Conference, May 1988, pp. 4.4.1 - 4.4.4
C11	Horiguchi et al, "An Experimental Large-Capacity Semiconductor File Memory Using 16-LEVELS/CELL Storage", IEEE Journal of Solid-State Circuits, Vol. 23, Feb 1988, No. 1, pp. 27-33.

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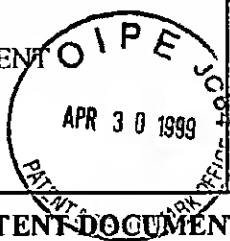
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LvH	A50 5 0 7 0 5 0 2	1991	Supnik			
LvH	A51 5 1 2 6 9 7 3	1992	Gallia et al.			
LvH	A52 5 1 3 4 5 8 4	1992	Boler et al.			
LvH	A53 5 2 1 4 6 5 7	1993	Farnworth et al.			
LvH	A54 5 2 2 2 1 0 9	1993	Pricer			
LvH	A55 5 2 4 3 5 7 0	1993	Saruwatari			
LvH	A56 5 2 6 8 8 7 0	1993	Harari			
LvH	A57 5 2 7 0 9 7 9	1993	Harari et al.			
LvH	A58 5 2 7 8 7 9 3	1994	Yeh			
LvH	A59 5 2 9 3 5 6 0	1994	Harari			
LvH	A60 5 3 6 9 6 1 5	1994	Harari et al.			

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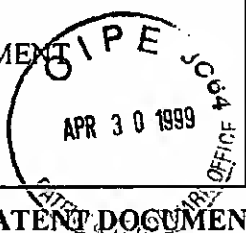
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS. (YES/N)

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent pages, Etc.)*


<b>EXAMINER</b> <div style="font-family: cursive; font-size: 1.2em;">Ly V. Hoa</div>	<b>DATE CONSIDERED</b> <div style="font-family: cursive; font-size: 1.2em;">12/14/99</div>
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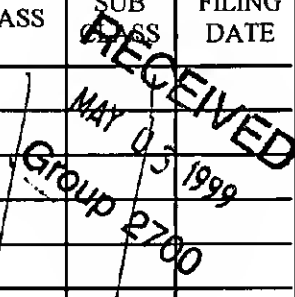
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LWH	A61	5	3	7	7	1	4	8		1994	Rajsuman			
LWH	A62	5	3	9	6	4	6	8		1995	Harari et al.			
LWH	A63	5	4	0	2	3	7	6		1995	Horiguchi et al.			
LWH	A64	5	4	1	4	6	6	4		1995	Lin et al.			
LWH	A65	5	4	6	5	2	3	4		1995	Hannai			
LWH	A66	5	4	7	1	4	3	1		1995	McClure			
LWH	A67	5	5	3	5	3	2	8		1996	Harari et al.			
LWH	A68	5	5	6	3	8	3	2		1996	Kagami			
LWH	A69	5	5	6	8	4	3	9		1996	Harari			



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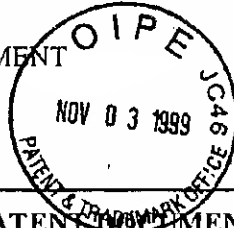
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LWH	A70 4 9 3 1 9 9 7	1990	Mitsubishi et al.			
LWH	A71 5 2 1 0 7 1 6	1993	Takada			
LWH	A72 5 2 9 7 1 0 3	1994	Higuchi			
LWH	A73 5 5 4 6 4 0 2	1996	Nijima et al.			
LWH	A74 5 5 9 4 6 8 9	1997	Kato			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS. (YES/N)
B18 JP 5 1 8 9 9 8 1	1993	Japan			Abstract
B19 JP 58 2 1 5 7 9 4	1983	Japan			Yes
B20 JP 58 2 1 5 7 9 5	1983	Japan			Yes
B21 JP 59 1 6 2 6 9 5	1983	Japan			Yes
B22 JP 59 0 4 5 6 9 5	1982	Japan			Yes

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

C12	"Gist of Technology in Coding Error Correction", Nippon Kogyo Gijutsu Center Co., Ltd., pp. 109-142.

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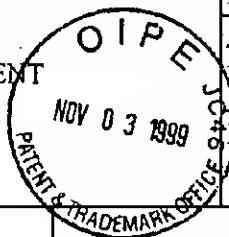
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<i>WdH</i>	B23	JP	62	2	8	3	4	9	7	1987	Japan			Yes
<i>WdH</i>	B24	JP	62	2	2	9	5	9	0	1986	Japan			Abstract
<i>WdH</i>	B25	JP	62	2	4	5	6	0	0	1986	Japan			Abstract
<i>WdH</i>	B26	JP	60	2	1	2	9	0	0	1984	Japan			Yes
<i>WdH</i>	B27	JP	61	0	9	6	5	9	0	1984	Japan			Abstract

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